REMARKS

Claims 1-3, 5-7, 9-12, and 14 are pending. Claims 1-3, 5 and 10 have been amended. Claims 4, 8, and 13 have been cancelled. Reconsideration and allowance of the present application based on the following remarks are respectfully requested.

Entry of this Amendment is respectfully requested since no new issues are raised by entry of the Amendment and it places the Application in condition for allowance, of at least in better form for appeal.

In the Drawings

Applicants herewith submit replacement formal drawings for Fig. 1.

Claim Rejections Under 35 U.S.C. § 101

Claims 1-4 were rejected under 35 U.S.C. § 101 as allegedly being directed to non-statutory subject matter. Applicants have amended the claims in accordance with the Examiner's suggestion to specifically recite that the system is a computer implemented system. Accordingly, Applicants respectfully request reconsideration and withdrawal of this rejection.

Claim Rejections Under 35 U.S.C. § 102

A.   Claims 1-14 were rejected under 35 U.S.C. § 102(b) over Quong et al. ("Linking Programs Incrementally", ACM 1991). Applicants respectfully traverse this rejection.

Amended claim 1 recites, in part, an incremental remote loading system that includes a dependent reader module for receiving a cross-compiled object file from a program development tool, analyzing the cross-compiled object file according to a type of an object file and detecting independent linking information from the type of the cross-compiled object file. The system also includes an independent linker module for receiving the detected liking information from the dependent reader module and downloading the object file to a target system by using the detected linking information and rearranging target module of the target system. The linker means provides an incremental remote linking, which links object files to the target system without a linking order of the cross-compiled object files.

In contrast, Quong relates to a software compiler that is capable of incrementally compiling a new executable after a change in the program is made. Specifically, Quong is concerned with compiling standalone executables in a reduced amount of time. Quong defines

a linker that combines object modules and run-time libraries into a standalone executable. See, for example, pages 1 and 2. Quong is not concerned with incremental remote loading recited in claim 1. Specifically, in claim 1, the linker module receives the detected liking information from the dependent reader module and downloads the object file to a target system by using the detected linking information and rearranging target module of the target system. Additionally, the linker means provides an incremental remote linking, which links object files to the target system without a linking order of the cross-compiled object files. The system in claim 1 downloads the object file (which is from a host system) to a target system using the rearranging target module of the target system and provides an incremental remote linking, which links object files to the target system without a linking order of the cross-compiled object files. The invention recited in claim 1 is not concerned with compiling objects into a single standalone executable but is rather concerned with allowing a target system to use objects by making the objects available to the target system. These two technologies are entirely different.

Accordingly, Quong fails to teach, or even suggest, an incremental remote loading system that includes (1) a dependent reader module for receiving a cross-compiled object file from a program development tool, analyzing the cross-compiled object file according to a type of an object file and detecting independent linking information from the type of the cross-compiled object file, and (2) an independent linker module for receiving the detected liking information from said dependent reader module wherein the linker means provides an incremental remote linking, which links object files to the target system without a linking order of the cross-compiled object files, as recited in amended claim 1.

Claims 5 and 10 are believed allowable for at least the reasons presented above with respect to claim 1 because claims 5 and 10 recite features similar to the features of claim 1 discussed above and because Quong fails to teach or suggest transforming the undefined symbol to the defined symbol if the symbol in the symbol table is undefined, as recited in claims 5 and 10.

Claims 2-4, 6-9, and 11-14 are believed allowable for at least the reasons presented above with respect to claims 1, 5, and 10 by virtue of their dependence upon claims 1, 5, and 10. Accordingly, Applicants respectfully request reconsideration and withdrawal of this rejection.

Conclusion

Therefore, all objections and rejections having been addressed, it is respectfully submitted that the present application is in a condition for allowance and a Notice to that effect is earnestly solicited.

Should any issues remain unresolved, the Examiner is encouraged to contact the undersigned attorney for Applicants at the telephone number indicated below in order to expeditiously resolve any remaining issues.

Respectfully submitted,

MAYER BROWN ROWE & MAW LLP

By: _____

Yoon S. Ham
Registration No. 45,307
Direct No. (202) 263-3280

YSH/VVK

Intellectual Property Group
1909 K Street, N.W.
Washington, D.C. 20006-1101
(202) 263-3000 Telephone
(202) 263-3300 Facsimile

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